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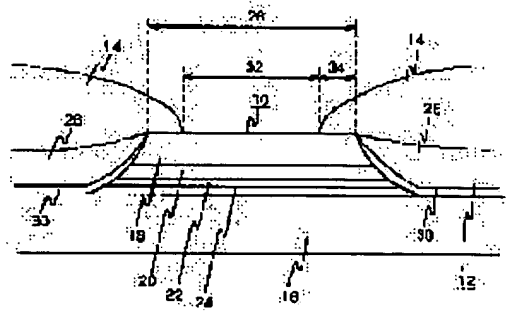
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(54) MAGNETO-RESISTIVE HEAD AND MAGNETIC RECORDING AND REPRODUCING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To suppress Barkhausen noises regardless of the intensity of magnetic domain control layers and to obtain high reproduction output even if an inter- electrode spacing is narrow.

SOLUTION: This head is formed by constituting a magneto-resistance effect film 10 of a laminated composed a first ferromagnetic film 8, a nonmagnetic conductive film 20 and second ferromagnetic films 22, 24, laminating the second ferromagnetic film 24 on an antiferroelectric film 16 and arranging the magnetic domain control layers 12 on both sides in the transverse direction of the magneto-resistance effect film 10. The head has a pair of electrodes 14 on the respective magnetic domain control layers 12. The head has the structure to pass currents only to the central part of the magneto-resistance effect film 10 by making the inter-electrode spacing of the respective electrodes 4 narrower than the width of the magneto-resistance effect film 10.



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